

- JOB NO. 4742
BARGE: DC-342

DIXIE CARRIERS -
7/95

HER 02117

HERCULES

MARINE SERVICES CORPORATION

P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3039-95

DATE : July 21, 1995

Job No. : 4742-1

Location : Freeport

TO: Dixie Carriers
2102 Broadway
Houston, TX 77012

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

PO# BGMG951111

Terms : Net 30

FOR: Service to barge DC342 as follows:

Set up equipment
Strip out all free product
Blow cargo pipeline and stripping system
Vacuum blow dry cargo tanks
Remove equipment
Close barge

Labor: Foreman	1	@	36.00	\$	36.00
	4	@	51.75		207.00
Leadman	1.5	@	33.50		50.25
	4.5	@	48.00		216.00
Journey	3.5	@	31.00		108.50
	13.5	@	44.25		597.37

Material: 283.20 + 56.64 339.84

Equipment: Compressor	6	@	44.00		264.00
Air movers	24	@	5.00		120.00
Vacuum	2	@	20.00		
Hand hose	2	@	10.00		20.00

TOTAL AMOUNT DUE \$1,998.96

Arrived: 7/3/95 2:00 p.m.
Completed: 7/3/95 8:00 p.m.

Perchloroethylene to Trycho

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

HER 02118

BGMG
PO# 951111

300 WORKSCOPE/HUTCHINSON

JOB NO: 4742 CUSTOMER: Dixie DATE: DC342

TOUGHMAN:	S/T	<u>1</u>	@ 36.00	<u>36.</u>
	O/T	<u>4</u>	@ 51.75	<u>207.</u>
TOUGHMAN:	S/T	<u>1.5</u>	@ 33.50	<u>50.25</u>
	O/T	<u>4.5</u>	@ 46.00	<u>216.</u>
TOUGHMAN:	S/T	<u>3.5</u>	@ 31.00	<u>108.50</u>
	O/T	<u>13.5</u>	@ 44.25	<u>597.37</u>

DISTANCE: _____ gal @ .35

MATERIAL: 283.20 plus 20% 56.64 339.84

STOCK MATERIAL: _____ PLUS 20%

EQUIP:

COMPRESSOR	<u>6</u>	@ 44.00	<u>264.</u>
AIR MOVING	<u>24</u>	@ 5.00	<u>120.</u>
FORCIBLET		@ 20.00	
TACHOMETER		@ 10.00	
STEAM REC		@ 10.00	
VACUUM	<u>2</u>	@ 20.00	<u>40.00</u>
HAND HOSE	<u>2</u>	@ 10.00	<u>20.00</u>
WELDING MACHINE		@ 15.00	
CHERRY-PICKER		@ 50.00	
CRANE		@ 100.00	
FLATBED TRUCK		@ 20.00	
3" GAS PUMP		@ 14.00	
2" STRIPPING PUMP		@ 12.00	
BUFFING MACH		@ 10.00	
4" ELECT PUMP		@ 15.00	
WORK DANCE		@ 25.00	
CUTTING REC		@ 0.00	
HAUL OUT		@ 1100.00 / day	

ARRIVED: _____ COMPLETED: _____ DEPARTED: _____

PRODUCT: _____ LOAD: _____

TOTAL INVOICE: 1998.20 ^W

3 boxes @ 6% 18.00
2 Conicals 2.85 5.70
2 glasses 1.75 3.50
gasket 6.00
chemist 250.00
283.20

HER 02119

ERIC L. MOORE MARINE CHEMIST
713-520-5479 409-297-7699
P.O. BOX V
FREEPORT TX 77542

INVOICE

Invoice No. 07051

Invoice Date 07/05/95

HERCULES
P.O. DRAWER O
FREEPORT TEXAS 77541

PO NUMBER

JOE

28656

DC 342

DESCRIPTION					TAXABLE	AMOUNT
CHEMIST CERTIFICATE OF INSPECTION ON THE VESSEL DC 342 AT HERCULES IN FREEPORT TEXAS ON 3 JUL 95, 18:40.						250.00
Amount Paid 0.00					Subtotal	250.00
Statement						
0 - 30 days	31 - 60	61 - 90	90 plus	Total Due		
1,500.00	1,000.00	1,250.00	2,750.00	6,500.00	TOTAL	\$250.00

RECEIVED

JUL 5 REC'D

HERCULES OFFSHORE
MARINE DIVISION

po # 4742 - 90286

HER 02120



Strength through experience, equipment, know-how
P.O. Drawer 0 Office: (409) 233-6371
Freeport, Texas 77541 Fax: (409) 233-6375

FINAL CHECK LIST

DATE: 7-3-95

BARGE: D.C. 342

BLND NUMBER CHECKED 2 REPLACED GASKET YES NO ☒
GATE VALVE NUMBER CHECKED 5 REPLACED GASKET YES NO ☒
PLUGS NUMBER CHECKED 1 REPLACED PLUG YES NO ☒
* CHECK VALVE NUMBER CHECKED N/A REPLACED GASKET YES NO ☐
DEEPWELL BLIND NUMBER CHECKED 1 REPLACED GASKET YES 2 ☒ NO ☐
BELOW DECK CARGO PIPELINE BLIND NUMBER 1 REPLACED GASKET YES NO ☐
BELOW DECK CARGO PIPELINE BLIND REMOVED YES NO ☒
DRIP PANS VALVES: CLOSED BY LUCIO
DRIP PANS COVER: CLOSED BY CASAS
CONTAINMENT AREA PLUG OR VALVES: CLOSED BY N/A

AIR TEST CARGO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: Alfredo Duarte

WITNESS: J. L. Rivera

- * CHECK VALVE GASKET WILL BE REPLACED
- * AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING BARGE.

HER 02121

JOB NO. 4742
BARGE NO. D.P. 342
CUSTOMER _____
PRODUCT PERCHLOROETHYLENE

ETA _____
DATE/TIME ARRIVAL _____
DATE/TIME STARTED _____
DATE/TIME COMPLETED _____

DISPOSAL AMOUNT _____ AMOUNT STRIPPED 600
CLEANING INSTRUCTION BY: _____ BY: _____
COMPLETION SCHEDULE BY: _____
OVERTIME AUTHORIZED BY: _____
BARGE INSPECTED BY: Charles P. Smith DATE/TIME: _____
BARGE RELEASED TO: _____ DATE/TIME: _____
DEEPWELL OPENED: YES ☒ NO ☐ CLOSED BY LUICID NEW CASKET YES ☒ NO ☐
BELOW DECK CARGO PIPELINE: BLIND OPEN YES ☐ NO ☒ CLOSED BY _____ NEW CASKET _____
DECK CHECK VALVE OPENED: YES N/A NO ☐ CLOSED BY _____ NEW CASKET YES ☐ NO ☐
DECK HEADER BLINDS OPEN: YES ☒ NO ☐ CLOSED BY for NEW CASKET YES ☐ NO ☒
DECK HEADER DRAIN PLUG OPEN: YES ☒ NO ☐ CLOSED BY for NEW CASKET YES ☐ NO ☒
VAPOR RECOVERY HEADER OPENED: YES ☒ NO ☐ CLOSED BY CASAS NEW CASKET YES ☐ NO ☐
RUST SCALE: YES ☐ NO ☒ WASHED OUT ☐ BUCKETED OUT ☐
NUMBER OF CARGO TANKS 3
NUMBER OF TANK VALVES 300
HULL BULK STRIPPED: YES N/A NO ☐ PIPE PRESSURE TEST DATE: _____
DRIP PANS STRIPPED: YES ☒ NO ☐
WEATHER: TEMP 80 RAIN ☐ FOG ☐ HUMIDITY ☐ OVERCAST ☐ CLOUDY ☐ CLEAR ☒
PIPELINE WASHED: NO PIPELINE BLOWN for PIPELINE SUMPS INSPECTED Charles P. Smith
BOW RAKE CHECKED: YES ☒ NO ☐ STERN RAKE: YES ☒ NO ☐
MOIDS: YES ☒ NO ☐ SAFETY EQUIPMENT USED: _____

W O R K S C O P E

HER 02122

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 7-3-95

Plant HERCULES

Area GAS FREE DOCK
D.C. 342

Supervisor [Signature]

Client Safety

The following listed materials are considered to be hazardous to the employees working in this area:

PERCHLOROETHYLENE

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
<u>[Signature]</u>			
<u>José A Casas</u>	<u>664</u>		
<u>[Signature]</u>	<u>60</u>		

HER 02123

DC-342

FOR CHEMICAL EMERGENCY - CALL 1-800-424-9300 IN THE U.S.A.
(1-202-483-7616 OUTSIDE THE CONTINENTAL U.S. AND IN WASHINGTON, D.C.)

EMERGENCY RESPONSE INFORMATION SHEET

PERCHLOROETHYLENE (VARIOUS GRADES)
(DS, FG, INDUSTRIAL & SVG GRADES)

DOT ORM-A
UN1897

PERCHLOROETHYLENE

FORM: LIQUID
SPECIFIC GRAVITY: 1.620 @ 25/25°F
SOLUBILITY IN WATER: DOES NOT MIX.
FREEZING POINT: -8°F
BOILING POINT: 250°F (APPROX.)

FLASH POINT: NONE
FLAMMABLE LIMITS: NONE
VAPOR HAZARD: MODERATELY IRRITATING.
REACTS WITH: MAGNESIUM, SODIUM
STRONG OXIDIZERS. WHEN HEATED,
EMITS HYDROGEN CHLORIDE AND
PHOSGENE AND CHLORINE GAS.

HEALTH HAZARDS

ANIMAL: AVOID INGESTION AND EXPOSURE.
FISH: TOXIC. PREVENT ENTRY INTO NATURAL WATERS. WILL CAUSE FISH KILL.

EYES: PAIN. SLIGHT IRRITATION.
SKIN: SEVERE IRRITATION IF CONFINED. DEFATS THE SKIN.
INHALATION: MODERATELY IRRITATING. DROWSINESS, NAUSEA, INTERNAL INJURY.
INGESTION: LOW TOXICITY.

IN CASE OF ACCIDENT

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P
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L

IRRITATING. KEEP UPWIND. ISOLATE AREA AND DENY ENTRY. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPORS. STOP LEAK IF WITHOUT RISK. USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND AND SHOVEL INTO SUITABLE CONTAINERS. DIKE LARGER SPILLS AND RECOVER. PREVENT ENTRY INTO SEWERS AND/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING EQUIPMENT.
DISPOSAL: CONTACT MANUFACTURER AND AUTHORITIES.

F
I
R
E

IRRITATING. WILL NOT BURN.
COOL CONTAINERS WITH WATER IF EXPOSED TO FIRE TO PREVENT BURSTING. MAY DECOMPOSE IN FIRE RELEASING PRODUCTS OF GREATER HAZARDS.
FIRES: IN CONTACT WITH FIRE USE FIRE EXTINGUISHING MEDIA SUITABLE FOR MATERIAL WHICH IS ACTUALLY BURNING. DIKE WATER RUNOFF. PREVENT ENTRY INTO SEWERS OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.

F
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T

EYES: IRRIGATION IMMEDIATELY WITH WATER FOR 5 MINUTES IS GOOD SAFETY PRACTICE.
SKIN: WASH OFF IN FLOWING WATER OR SHOWER.
CLOTHING: REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. USE EXTRA CARE WITH SHOES. AIR THOROUGHLY.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. IF NOT BREATHING, GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

The information contained herein is hereby presented as a complimentary act, in good faith, and is, to the best of The Dow Chemical Company's knowledge and belief, accurate and reliable as of the date printed, but may well be incomplete. No representation, guarantee or warranty is made as to its accuracy, reliability or completeness and, as Governmental regulations and use conditions may change, it is the user's responsibility to determine the current appropriateness and suitability for specific end uses prior to use.

FORM C-40010 PRINTED 6-82



DOW CHEMICAL U.S.A.

AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

Trademark of The Dow Chemical Company

JUL 18 1983

HER 02124



TRANSPORTATION EQUIPMENT DATA

- EMERGENCY DATA
ON OTHER SIDE -

PRODUCT		CODE NO.	DATE ISSUED OR REVISED
PERCHLOROETHYLENE (VARIOUS GRADES)		See below	JUL 18 1983
SYNONYM: (DS, FG, INDUSTRIAL & SVG GRADE)		TYPE COMMODITY Chlorinated Solvent	
CHARACTERISTICS	DOT SHIPPING NAME ---		DOT HAZARD CLASS
	FLASH POINT None	FLAMMABLE LIMITS ---	BOILING POINT 250°F (Approx.)
	FREEZING POINT -8°F	LOADING TEMP. Ambient	VAPOR DENSITY (AIR = 1) Greater than air
	WT/GAL @ 77°F (25°C) Average 13.5	CONCENTRATION SHIPPED Full strength	MAX. PRODUCT TEMP. ---
		SOLUBILITY IN WATER Does not mix	MAX. STEAM PRESSURE ---
			PHYSICAL STATE Liquid

APPROVED EQUIPMENT:

	TANK TRUCK	TANK CAR
TANK TYPE:	MC 303(1), 304(2), 306(1), 307(2) 311(2), 312(2).	DOT 103W, 111A60W-1, 111A100W-1
TANK MATERIALS:	Stainless steel, ALUMINUM, lined steel	Carbon steel, lined steel
INSULATION:	Not required	Not required
STEAMCOILS:	Not required	Not required
METHOD USED TO CLEAN TANK:	Drain, flush with water, steam, rinse thoroughly and dry.	Drain, steam, wash with water and dry.
PUMP TYPES:	Stainless steel or steel Centrifugal or positive displacement	
HOSE TYPES:	Seamless stainless steel, Teflon, seamless bronze, cross-linked P/E(3), Viton(3) (Uniroyal or Goodyear)	
GASKETS:	Teflon, Asbestos, Viton, (Leather - single use only)	
OTHER:	(1) MUST BE EQUIPPED WITH PRESSURE HATCH - 25 psig Min. (2) PREFERRED EQUIPMENT. (3) MAY BE USED ONLY FOR INTERMITTENT SERVICE. DO NOT USE IN PERMANENT INSTALLATIONS.	

HANDLING:

HOW UNLOADED	Pump or air pressure. (Pressure NOT approved for MC 303 and 306 tanks.)
PROBLEMS:	AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPORS.
PRECAUTIONS:	USE PROTECTIVE EQUIPMENT - MINIMUM OF CHEMICAL WORKERS GOGGLES HARD HAT, RUBBER GLOVES AND RUBBER BOOTS. HAVE RESPIRATOR AVAILABLE.
OTHER:	Grades: DS - #59063 FG - #59007 Industrial - #59009 SVG - #59010

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FORM 0-1970 PRINTED 8-6-78

HER 02125

HERCULES OFFSHORE CO.

MARINE REPAIR

MARINE OPERATIONS FACILITY

INVOICE NO. _____

ORDER No. 4742

CUSTOMER P.O. _____

DATE	ORDER WRITTEN	ETA
	7-3-95	
	ARRIVAL	
	7-3-95	
E	COMPLETION DATE	
	7-3-95 2:00 PM & 7-3-95 8:00 PM	
DEPARTURE DATE		
M/V <input type="checkbox"/> BARGE <input checked="" type="checkbox"/>		
NAME <u>DC-342</u>		
LOA _____ WIDTH _____		
FOREMAN		
<u>CLAUDIO DUARTE</u>		
LAST PRODUCT		
<u>PERCHLOROETHYLENE TO TRICE</u>		
GAS FREEING YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
ON WAYS _____ DATE: _____		
ON WAYS _____ DATE: _____		

CUSTOMER	NAME	
	<u>DIXIE CARRIER</u>	
	BILLING ADDRESS	
	CITY AND STATE	
E	PHONE NUMBER	
WORK AUTHORIZED BY		BY AUTHORIZED BY
<u>MIKE GREEN</u>		<u>MIKE GREEN</u>
STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET		
OUTSIDE SERVICES <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, LIST		

ITEM NUMBERS

- 1 STRIP AND BLOW
Used Three pair of Respirator Filter, Two Coversall, &
- 2 Two pair Rubber Gloves.
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Claudio Duarte Date: 7-3-95

HER 02126

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE REPAIR

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

ORDER No. 4742

DATE	ORDER WRITTEN <u>7-3-95</u>	ETA
	ARRIVAL <u>7-3-95</u>	
	COMPLETION DATE	
	DEPARTURE DATE	
H/V <input type="checkbox"/> BARGE <input checked="" type="checkbox"/>		
NAME <u>DC-342</u>		
LOA _____ WIDTH _____		
FOREMAN <u>CLAUDIO DUARTE</u>		
LAST PRODUCT <u>PERCHLOROETHYLENE TO TRI-CO</u>		
GAS FREEING YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
ON WAYS _____ DATE: _____		
ON WAYS _____ DATE: _____		

CUSTOMER	NAME <u>DIXIE CARRIER</u>	
	BILLING ADDRESS	
	CITY AND STATE	
	PHONE NUMBER	
WORK AUTHORIZED BY <u>MIKE GREEN</u>		BY AUTHORIZED BY <u>MIKE GREEN</u>
STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET		
OUTSIDE SERVICES IF YES, LIST <input type="checkbox"/> YES <input type="checkbox"/> NO		

ITEM NUMBERS

1 STRIP AND BLOW

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HER 02127

MARINE SERVICE CORP.
FREEPORT, TEXAS

FOREMAN'S DAILY TIME REPORT

CLASS NO. _____

DC - 342

STRIP AND BLOW
DRY

TOTAL HOURS

**BADGE
NO.**

NAME

JOE OLIVAREZ

LUCIO NATERA

CLAUDIO DUARTE

JOSE CASAS

Jimmy JACKSON

TOTAL HOURS

28

SIGNED _____ FOREMAN

CODED
AND
EXTENDED
BY

APPROVED
BY

HER 02128

PLEASE FILL OUT EVERYTHING ON THIS PAGE BEFORE TURNING INTO SYLVIA

T I M E S H E E T

DATE: 7-3-85

JOB NO: 4742

BARCE NAME: D.C. 342

OVERHEAD: _____

OFFSHORE: _____

TIME START: 2:00 PM.

TIME STOP: 8:30 PM.

NAME: _____

HOURS: _____

JOE OLIVAREZ ✓

S/T

O/T 5 1/2

CLAUDIO DUARTE ✓

S/T

O/T 6

LUCIO NAJERA ✓

S/T

O/T 5 1/2

JOSE CASAS ✓

S/T

O/T 6

JOB DESCRIPTION: Strip & Blow Down
Used Three pair Respirator Filter, Two Coveralls
& Two pair Rubber Gloves.

HER 02129



Strength through environmental awareness and customer service

P.O. Drawer O
Freeport, Texas 77541

Office (409) 233-6371
Fax: (409) 233-6575

EQUIPMENT	HOURS USED	HOURLY RATE	TOTAL PRICE
COMPRESSOR	6	44.00	
AIR MOVERS	24	5.00	
VACUUM	2	20.00	
BOILER		80.00	
HAND HOSE	2	10.00	
BUTTERWORTH		10.00	
2" STRIP PUMP		12.00	
3" DIESEL PUMP		14.00	
4" ELECT PUMP		15.00	
CRANE		130.00	
CHERRY PICKER		50.00	
FORKLIFT		20.00	
TUG BOAT		80.00	
WELD MACHINE		15.00	
CUTTING RIG		8.00	
WORK BARGE		35.00	
HAUL OUT		1100.00	

DATE: 7-3-88 JOB NO: 41242 BARGE NAME: D-C-342

HER 02130

ERIC MOORE
713-520-5479

MARINE CHEMIST CERTIFICATE
SERIAL NO. G 28656

Survey Requested by <u>ONE</u>	Vessel Owner or Agent <u>Hercules</u>	Date <u>3 JUL 75</u>
Vessel <u>DC 342</u>	Type of Vessel <u>FLYING DUTCHMAN</u>	Specific Location of Vessel <u>HERCULES</u>
Last Three (3) Cargoes <u>200 GALLONS</u>	Tests Performed <u>LEL - IT - USUAL</u>	Time Survey Completed <u>18:40</u>

CARGO ISSUES NO 1, 2 & 3 - - - - - SAFE FOR WORKERS

ATMOSPHERIC TEST 20.8 % O₂
0 % LEL

PROVIDE VENTILATION DURING THE ENTRY BY WORKERS

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed _____ Date _____ Signed Eric Moore Certificate No. 06

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-68

Printed in U.S.A.

HER 02131